

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 02/01458

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C11D17/06 C11D17/00 C11D3/00 C11D11/00 C11D3/10  
C11D3/16 C11D3/18 C11D3/37

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C11D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 198 57 204 A (HENKEL KGAA) 15 June 2000 (2000-06-15) the whole document	1-13,15, 17,20
Y	DE 43 25 881 A (HENKEL KGAA) 9 February 1995 (1995-02-09) page 4, line 57 -page 5, line 11; claims 1,3,5-9,12,13	1,7-16, 20
Y	DE 198 28 080 A (HENKEL KGAA) 30 December 1999 (1999-12-30) column 3, line 18 - line 66 column 8, line 33 - line 42; claims 1,3,7-9	1,7-16, 20

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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\* & \* document member of the same patent family

Date of the actual completion of the international search

1 August 2002

Date of mailing of the international search report

09/08/2002

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 093 218 A (HALL ROBIN GIBSON ET AL) 25 July 2000 (2000-07-25) column 8, line 8 - line 17 column 9, line 9 - line 19 column 17, line 33 - column 18, line 49; claims 1,2,4,6,7 -----	1-6,19, 20
Y	WO 93 01269 A (UNILEVER PLC ;UNILEVER NV (NL)) 21 January 1993 (1993-01-21) page 7, line 6 - page 11, line 27; claim 12 -----	1-6,19, 20
A	US 3 933 672 A (BARTOLOTTA GUISEPPE ET AL) 20 January 1976 (1976-01-20) column 4, line 9 - line 65; claims 1,2,6,8,9,16,17 -----	1
A	DE 195 05 690 A (HENKEL KGAA) 22 August 1996 (1996-08-22) page 2, line 30 - line 60; claims 1,3-6 -----	1
A	DE 40 04 687 A (HENKEL KGAA) 22 August 1991 (1991-08-22) claims 1,5 -----	1

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 02/01458

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 19857204	A	15-06-2000	DE 19857204 A1	15-06-2000
			WO 0036063 A1	22-06-2000
			EP 1137751 A1	04-10-2001
			US 6340662 B1	22-01-2002
DE 4325881	A	09-02-1995	DE 4325881 A1	09-02-1995
			AT 159045 T	15-10-1997
			DE 4344155 A1	29-06-1995
			DE 59404286 D1	13-11-1997
			WO 9504124 A1	09-02-1995
			EP 0712437 A1	22-05-1996
			ES 2109720 T3	16-01-1998
			JP 9501703 T	18-02-1997
DE 19828080	A	30-12-1999	DE 19828080 A1	30-12-1999
			DE 59900992 D1	18-04-2002
			WO 9967354 A1	29-12-1999
			EP 1090102 A1	11-04-2001
US 6093218	A	25-07-2000	GB 2315761 A	11-02-1998
			AU 3891297 A	20-02-1998
			AU 3962697 A	20-02-1998
			BR 9710680 A	17-08-1999
			BR 9711105 A	17-08-1999
			BR 9711111 A	17-08-1999
			BR 9711609 A	15-01-2002
			CA 2255594 A1	20-11-1997
			CZ 9900302 A3	14-07-1999
			CZ 9803718 A3	17-03-1999
			EP 0906385 A1	07-04-1999
			EP 0915956 A1	19-05-1999
			EP 0915950 A1	19-05-1999
			EP 0915949 A1	19-05-1999
			HU 9904343 A2	28-05-2000
			JP 2000500812 T	25-01-2000
			JP 2000505137 T	25-04-2000
			JP 2000501447 T	08-02-2000
			JP 2002509559 T	26-03-2002
			TR 9900171 T2	21-04-1999
			WO 9743366 A1	20-11-1997
			WO 9804662 A1	05-02-1998
			WO 9804661 A1	05-02-1998
			WO 9804668 A1	05-02-1998
			US 6313086 B1	06-11-2001
			US 6380144 B1	30-04-2002
			ZA 9706669 A	10-02-1998
			ZA 9706670 A	01-09-1998
			ZA 9706671 A	11-02-1998
WO 9301269	A	21-01-1993	AU 670032 B2	04-07-1996
			AU 2196092 A	11-02-1993
			BR 9206230 A	27-12-1994
			EP 0593544 A1	27-04-1994
			WO 9301269 A1	21-01-1993
US 3933672	A	20-01-1976	GB 1407997 A	01-10-1975
			AT 391479 B	10-10-1990
			AT 671973 A	15-10-1977

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 02/01458

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 3933672 A		AU 5872173 A BE 803101 A2 CA 1004566 A1 CH 581186 A5 DE 2338468 A1 FI 58155 B FR 2194771 A1 IE 37960 B1 IT 995106 B JP 49085103 A NL 7310566 A ,B, SE 414048 B ZA 7305089 A	06-02-1975 01-02-1974 01-02-1977 29-10-1976 14-02-1974 29-08-1980 01-03-1974 23-11-1977 10-11-1975 15-08-1974 05-02-1974 07-07-1980 26-06-1974
DE 19505690 A	22-08-1996	DE 19505690 A1 WO 9626258 A1	22-08-1996 29-08-1996
DE 4004687 A	22-08-1991	DE 4004687 A1 AT 115622 T DE 59103912 D1 WO 9112306 A1 EP 0515417 A1 ES 2064997 T3 JP 5504162 T US 5318718 A	22-08-1991 15-12-1994 26-01-1995 22-08-1991 02-12-1992 01-02-1995 01-07-1993 07-06-1994